## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A method for coloring a cellulose fiber, comprising:
a step (1) of introducing a carboxylic group or a sulfonic acid group into cellulose fiber
by an adhesion curing treatment, irradiation or immobilization with a binder;
and a step (2) of treating the cellulose fiber having the carboxylic group or the sulfonic acid
group introduced with an aromatic derivative having one or more hydroxyl groups and a metal
salt simultaneously or separately;

wherein the cellulose fiber is colored without the use of a dye.

- 2 (Original) The method for coloring a cellulose fiber according to claim 1, wherein carboxylic groups are introduced into the cellulose fiber by an adhesion curing treatment with a polycarboxylic acid.
- 3. (Original) The method for coloring a cellulose fiber according to claim 1 or 2, wherein the aromatic derivative having one or more hydroxyl groups is dihydroxybenzoic acid, dihydroxybenzaldehyde, trihydroxybenzoic acid, trihydroxybenzaldehyde, or tannic acid.
- 4. (Previously Presented) The method for coloring a cellulose fiber according to claim 1, wherein the metal salt is an iron salt.
- 5. (Original) A colored cellulose fiber, colored by the method according to any one of claims 1 or 4.

6. (Currently Amended) A method for producing a colored cellulose fiber, comprising:

a step (1) of introducing a carboxylic group or a sulfonic acid group into a cellulose fiber by an adhesion curing treatment, irradiation or immobilization with a binder; and

a step (2) of treating the cellulose fiber having the carboxylic group or the sulfonic acid group introduced with an aromatic derivative having one or more hydroxyl groups and a metal salt simultaneously or separately;

wherein the cellulose fiber is colored without the use of a dye.

- 7. (Original) The method for producing a colored cellulose fiber according to claim 6, wherein carboxylic groups are introduced into the cellulose fiber by an adhesion curing treatment with a polycarboxylic acid.
- 8. (Original) The method for producing a colored cellulose fiber according to claim 6 or claim 7, wherein the aromatic derivative having one or more hydroxyl groups is dihydroxybenzoic acid, dihydroxybenzaldehyde, trihydroxybenzoic acid, trihydroxybenzaldehyde, or tannic acid.
- 9. (Previously Presented) The method for producing a colored cellulose fiber according to claim 6, wherein the metal salt is an iron salt.

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10. (Previously Presented) A colored cellulose fiber, produced by the method according to claim 6.

- 11. (Previously Presented) The method for coloring a cellulose fiber according to claim 1, wherein a carboxylic group or a sulfonic acid group are introduced into the cellulose fiber by irradiating the fiber with an electron beam or gamma ray.
- 12. (Previously Presented) The method for coloring a cellulose fiber according to claim 1, wherein a carboxylic group or a sulfonic acid group are introduced into the cellulose fiber by immobilization with urethane resins, glyoxal resins or acrylic resins as a binder.
- 13. (Previously Presented) The method for producing a colored cellulose fiber according to claim 6, wherein a carboxylic group or a sulfonic acid group are introduced into the cellulose fiber by irradiating the fiber with an electron beam or gamma ray.
- 14. (Previously Presented) The method for producing a colored cellulose fiber according to claim 6, wherein a carboxylic group or a sulfonic acid group are introduced into the cellulose fiber by immobilization with urethane resins, glyoxal resins or acrylic resins as a binder.
- 15. (Previously Presented) The method for coloring a cellulose fiber according to claim 1, wherein treatment with a metal salt is performed by immersion or spraying.

- 16. (Previously Presented) The method for producing a colored cellulose fiber according to claim 6, wherein treatment with a metal salt is performed by immersion or spraying.
- 17. (Previously Presented) The method for coloring a cellulose fiber according to claim 1, wherein treatment with an aromatic derivative having one or more hydroxyl groups is performed by immersion or spraying.
- 18. (Previously Presented) The method for producing a colored cellulose fiber according to claim 6, wherein treatment with an aromatic derivative having one or more hydroxyl groups is performed by immersion or spraying.
  - 19. (Cancelled)
- 20. (Previously Presented) The method for coloring a cellulose fiber according to claim 2, wherein the adhesion amount of the polycarboxylic acid is from 0.1 to 30 wt%.